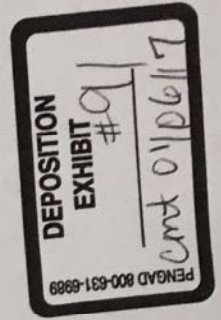


September 12, 2012 Denison, IA		
6:15 PM	NNE	18.4 mph-N/A
6:35 PM	NNE	17.3 mph-N/A
6:55 PM	NE	6.9 mph15.0 mph 0.01 in
7:15 PM	NNE	10.4 mph17.3 mphN/A
7:35 PM	NNE	9.2 mph16.1 mphN/A
7:55 PM	NE	6.9 mph-0.12 in
8:15 PM	NNE	8.1 mph-N/A
8:35 PM	NNE	12.7 mph-N/A
8:55 PM	NNE	12.7 mph18.4 mph0.12 in
9:15 PM	NE	13.8 mph-N/A
9:55 PM	NE	9.2 mph-0.06 in
10:15 PM	NE	11.5 mph17.3 mphN/A
10:35 PM	East	10.4 mph20.7 mphN/A
10:55 PM	NE	4.6 mph-0.06 in
11:15 PM	NE	6.9 mph-N/Arain
11:35 PM	NE	10.4 mph-N/A
11:55 PM	ENE	9.2 mph-0.01 in

Overcast
RainLight Rain
RainLight Rain
Overcast
rain Rain
RainHeavy Rain
RainLight Rain
RainHeavy Rain
RainLight Rain
RainLight Rain
RainHeavy Rain
RainLight Rain
Unknown
Overcast
Light Rain
RainLight Rain
RainLight Rain



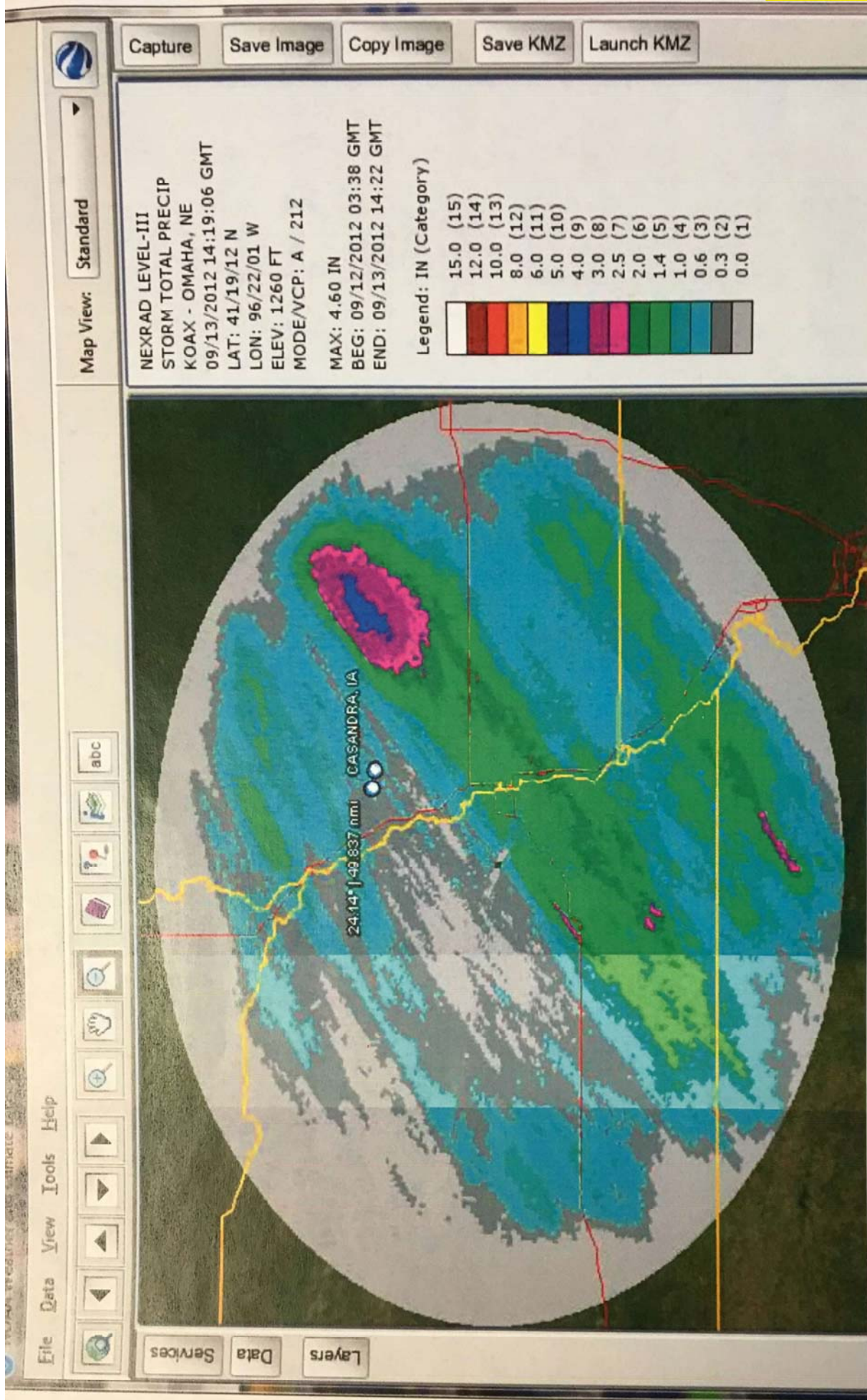
NEXRAD Level-III GENERAL STATUS MESSAGE
FILE: KOAX_NXUS63_GSMOAX_201209050000
LEVEL-III PRODUCT (BUILD) VERSION: 13.0
MODE: Precipitation / Severe Weather Mode
VCP: 212

RDA OP. STATUS: Online
RDA STATUS: Operate
RDA ALARMS: No Alarms Present
RPG OP. STATUS: On-line
RPG STATUS: Operate
RPG ALARMS: No Alarms

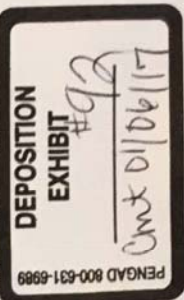
NUMBER OF ELEVATION CUTS: 14

ELEVATION CUT[0] : 0.5
ELEVATION CUT[1] : 0.9
ELEVATION CUT[2] : 1.3
ELEVATION CUT[3] : 1.8
ELEVATION CUT[4] : 2.4
ELEVATION CUT[5] : 3.1
ELEVATION CUT[6] : 4.0
ELEVATION CUT[7] : 5.1
ELEVATION CUT[8] : 6.4
ELEVATION CUT[9] : 8.0
ELEVATION CUT[10] : 10.0
ELEVATION CUT[11] : 12.5
ELEVATION CUT[12] : 15.6
ELEVATION CUT[13] : 19.5

DATA TRANSMISSION ENABLED: Reflectivity
RPG NARROWBAND STATUS: No Message
REFLECTIVITY CALIBRATION CORRECTION: 0.25
RDA CHANNEL NUMBER: 0



This is a mosaic illustrating the total precipitation for the September 12 storm event. Note that the image date is 9/13/12. The time of this image is Greenwich Mean Time (GMT) or about 5 hours ahead of CST. Thus, this image is 11:19 PM CST.



TRIAL EX. 71

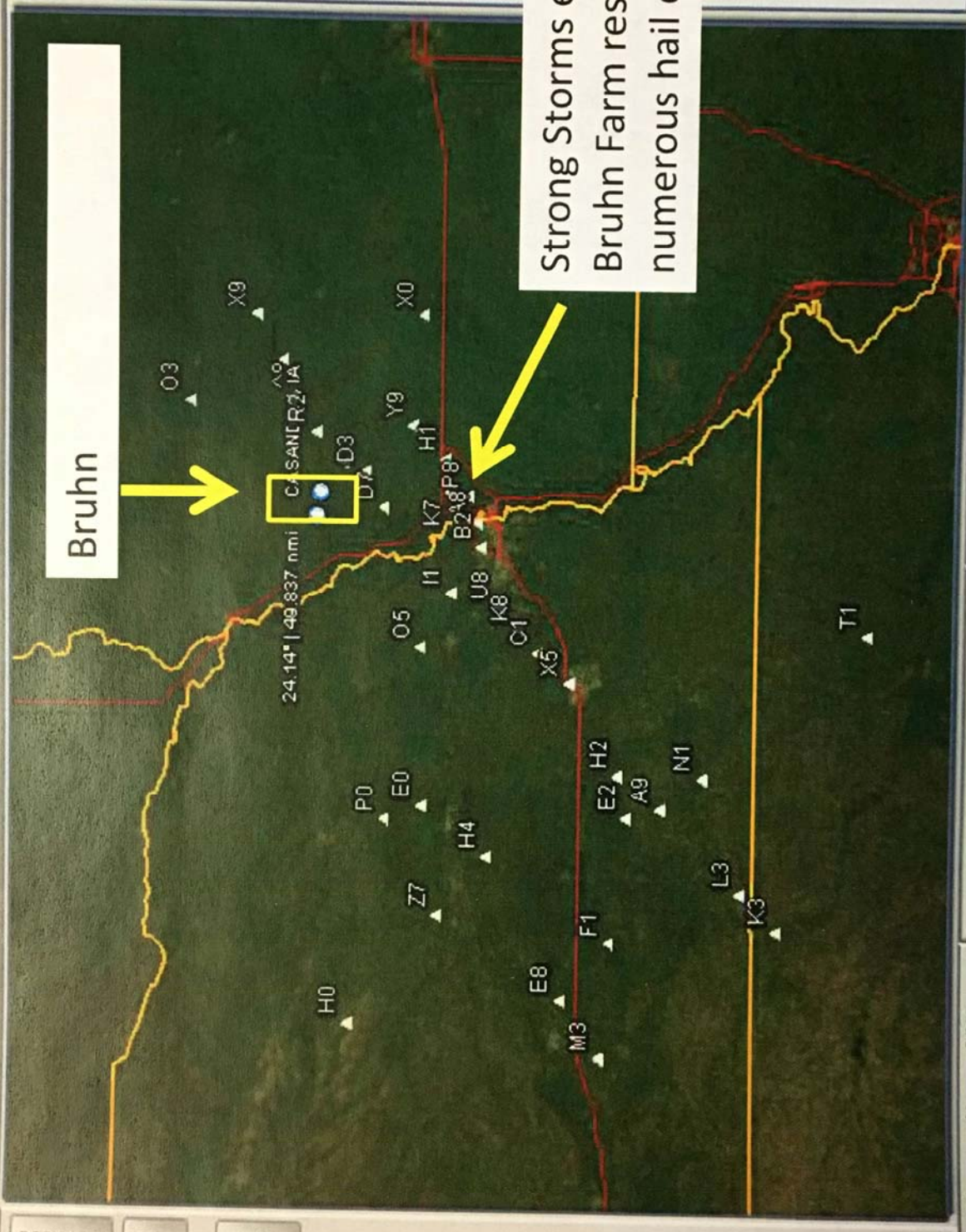
Case No. 13-CV-4106 CJW

Map View: Standard

abc

Navigation icons: Home, Back, Forward, Stop, Search, etc.

NEXRAD LEVEL-III
HAIL INDEX
09/13/2012 00:00:47 GMT
LAT: 41/19/12 N
LON: 96/22/01 W
ELEV: 1260 FT
MODE/VCP: A / 212
MAX ID: A9
PROB: 20%
MAX SIZE: <0.50 in



Bruhn

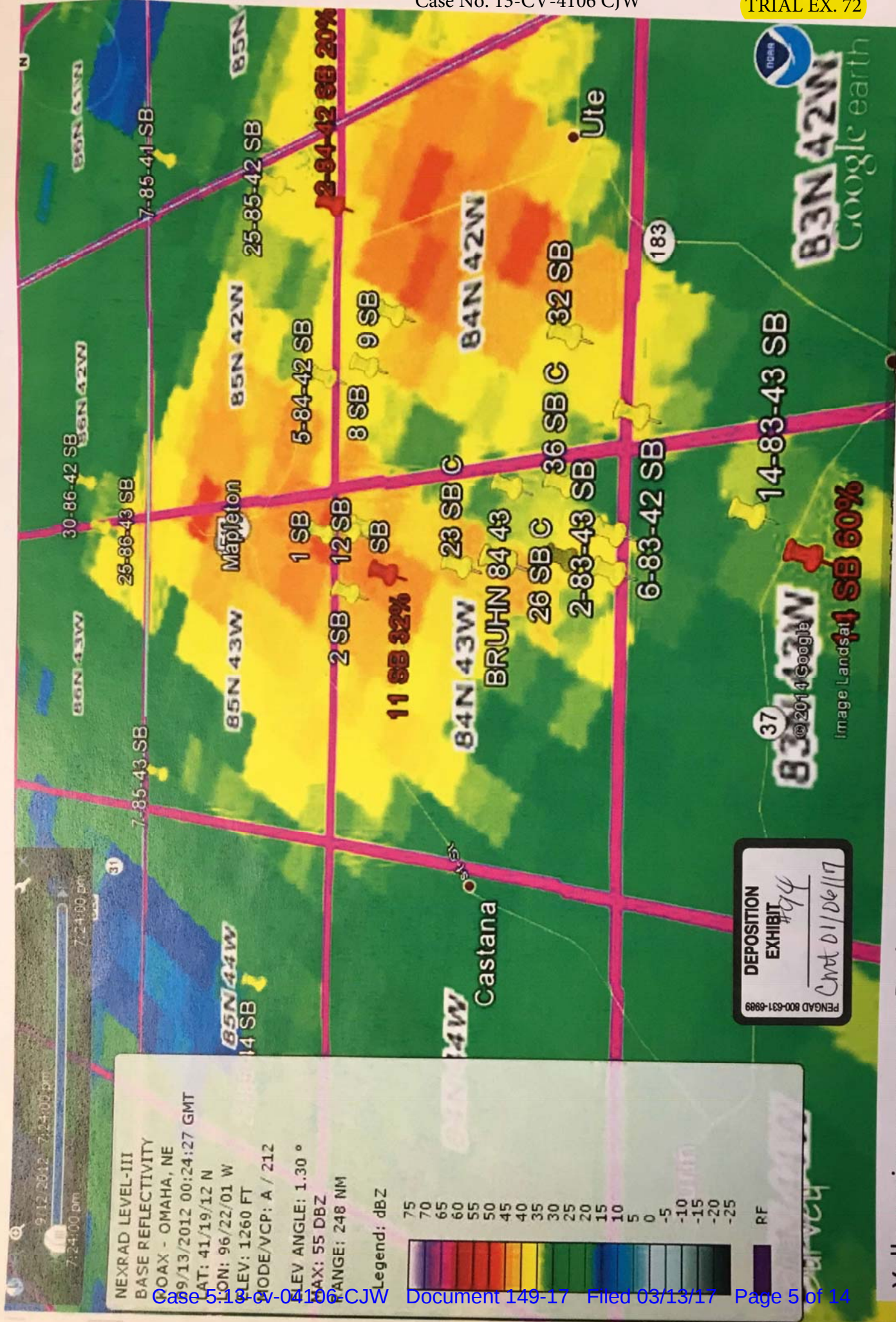
Strong Storms east of Bruhn Farm resulted in numerous hail events.

Memory Usage: 35%

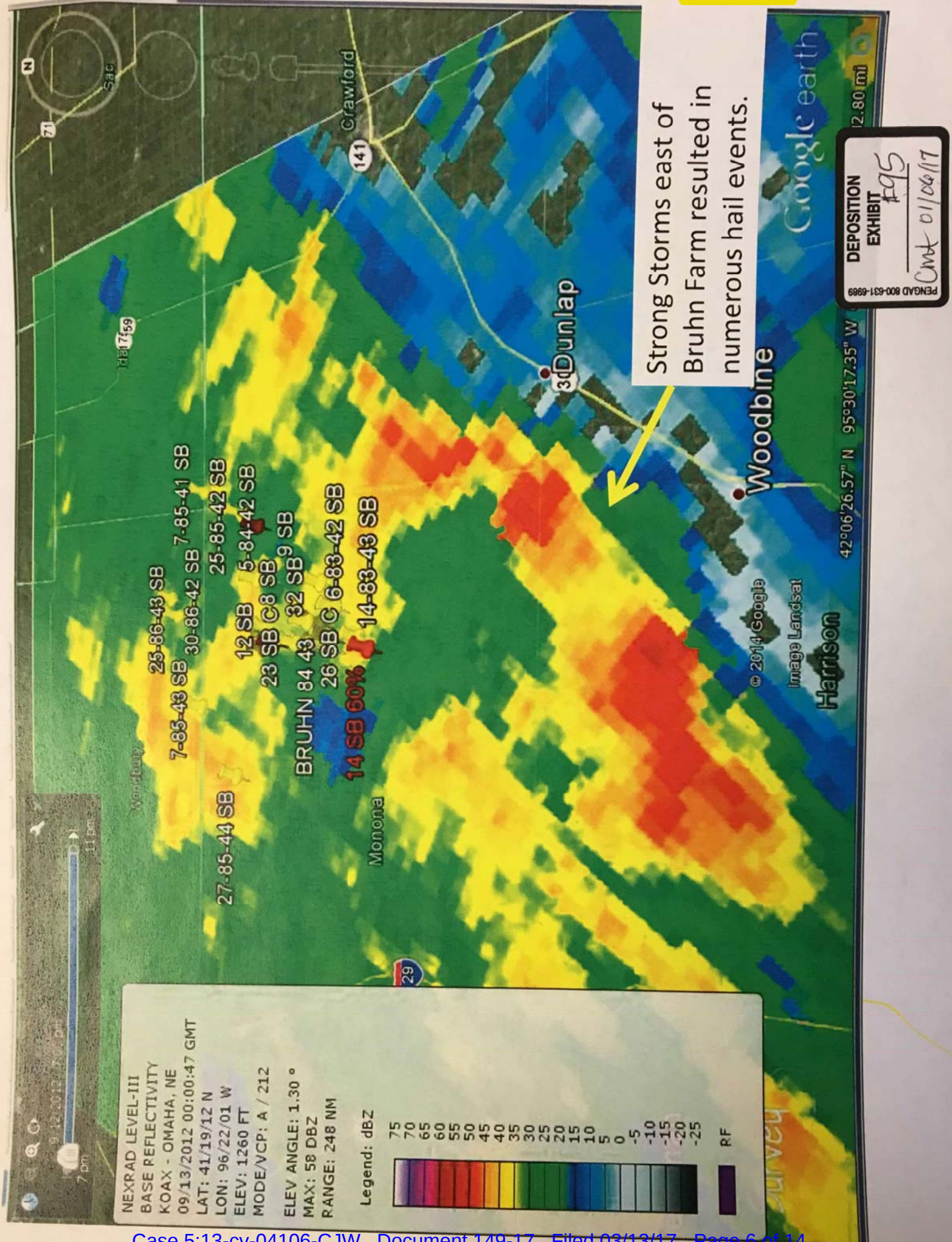
95.4330°W 41.3427°N (No Data)

87.84° | 42.235 nmi

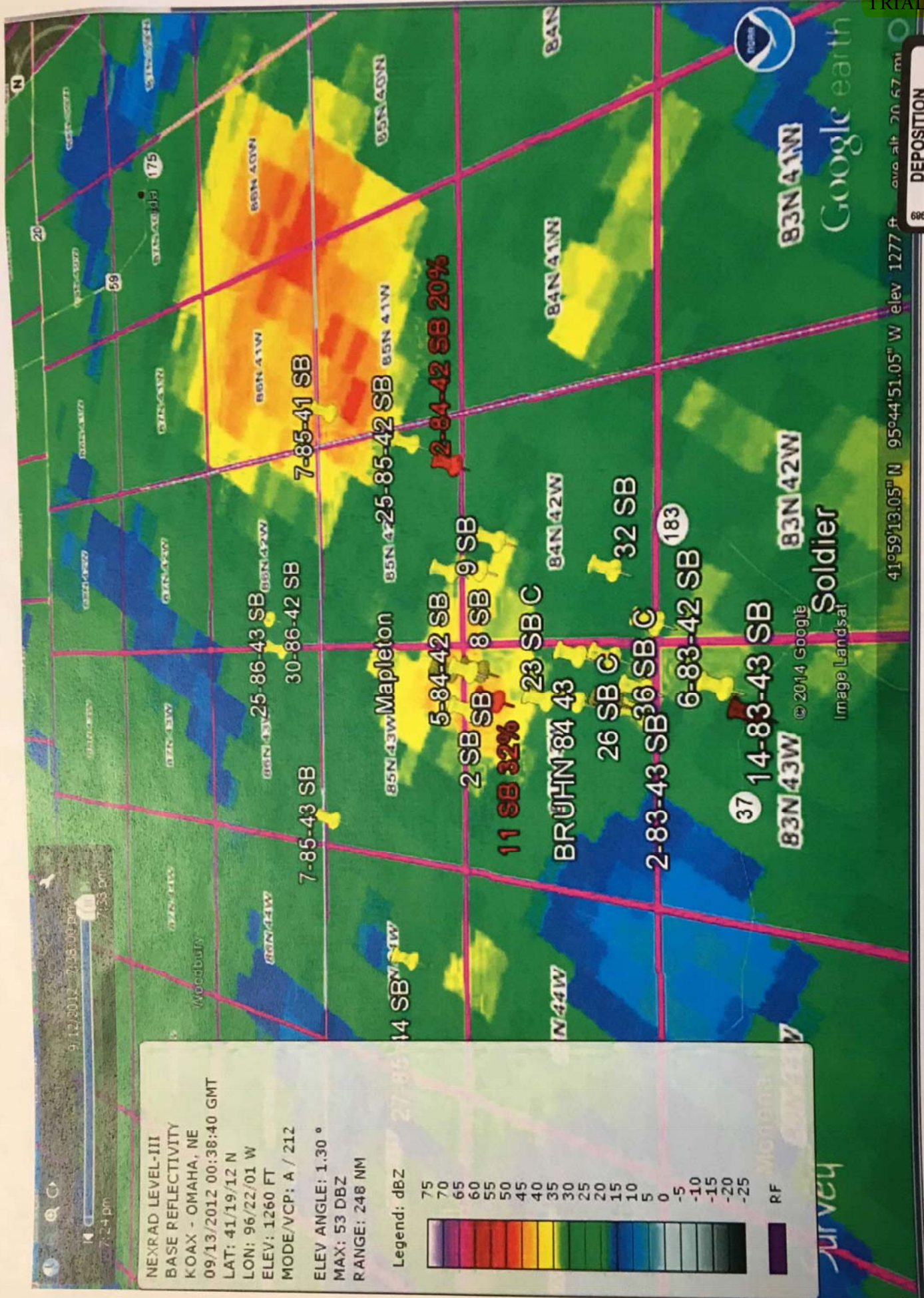
DEPOSITION
EXHIBIT #93
Cmt 01/06/17
PENGAD 800-631-6989



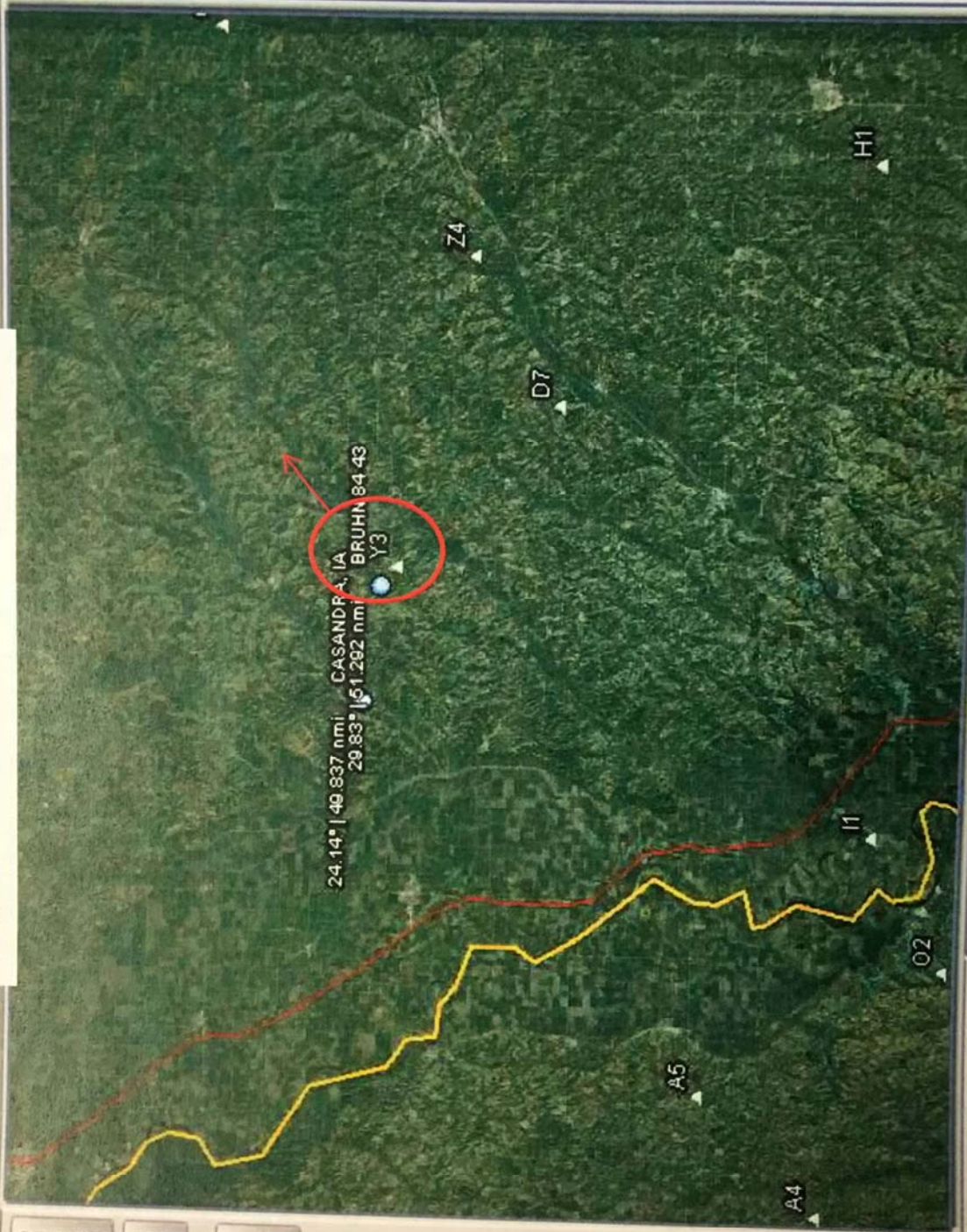
Yellow pins represent Bruhn Farm fields and Red pins represent three control farms with hail injury. SB= Soybeans C= Corn. Note the variability in storm intensity across the landscape.



Strong Storms east of
Bruhn Farm resulted in
numerous hail events.



Y3 hail event appeared on the east side of farm. It moved towards the NE.



NEXRAD LEVEL-III
HAIL INDEX
09/13/2012 00:19:43 GMT
LAT: 41/19/12 N
LON: 96/22/01 W
ELEV: 1260 FT
MODE/VCP: A / 212
MAX ID: 01
PROB: 70%
MAX SIZE: 0.50 in

DEPOSITION
EXHIBIT #97
Cont 01/06/17
PENGAD 800-631-6989

Memory Usage: 35% 95.7688°W 41.9817°N (No Data) 33.93° | 47.948 nmi



Capture

Save Image

Copy Image

Save KMZ

Launch KMZ

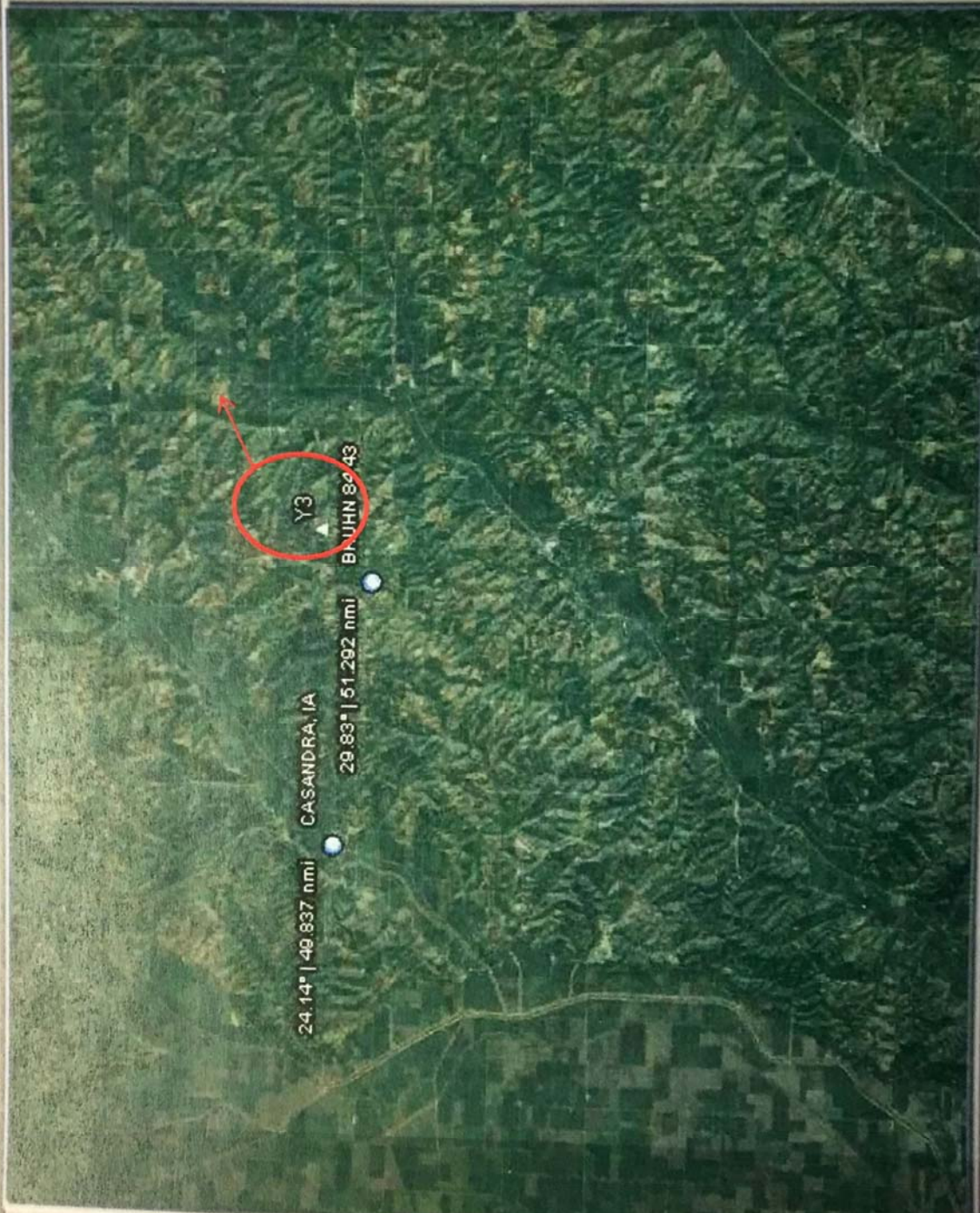
TRIAL EX. 76

Case No. 13-CV-4106 CJW

Map View: Standard

NEXRAD LEVEL-III
HAIL INDEX
09/13/2012 00:24:27 GMT
LAT: 41/19/12 N
LON: 96/22/01 W
ELEV: 1260 FT
MODE/VCP: A / 212
MAX ID: 01
PROB: 50%
MAX SIZE: <0.50 in

DEPOSITION
EXHIBIT #98
Cmt 01/06/17
PENGAD 800-631-6989



24.14° | 49.837 nmi CASANDRA, IA
29.83° | 51.292 nmi
Y3
BNJHN 8243

35.29° | 51.743 nmi

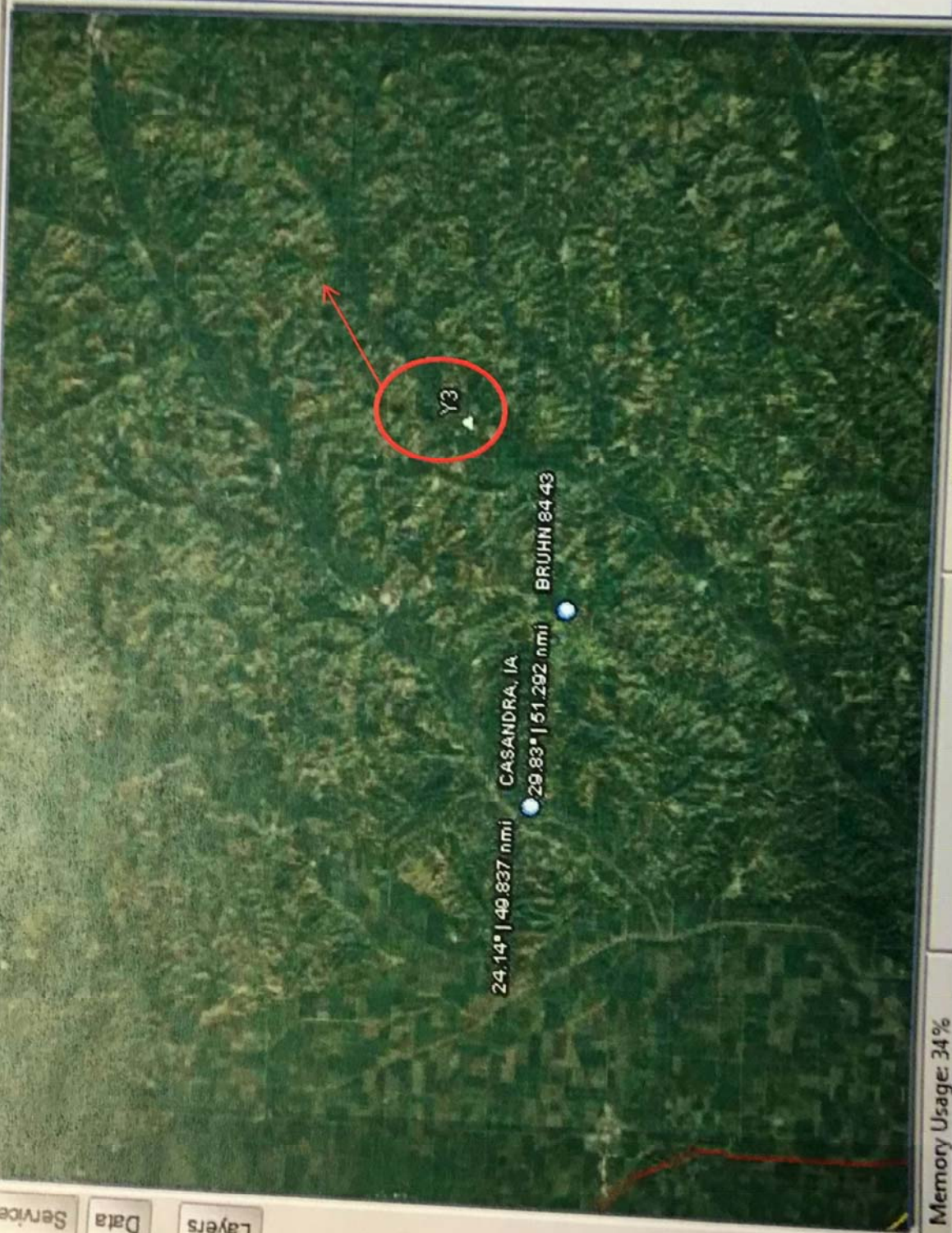
95.6985°W 42.0223°N (No Data)

Memory Usage: 36%

Map View: Standard

NEXRAD LEVEL-III
HAIL INDEX
09/13/2012 00:29:11 GMT
LAT: 41/19/12 N
LON: 96/22/01 W
ELEV: 1260 FT
MODE/VCP: A / 212
MAX ID: 01
PROB: 50%
MAX SIZE: <0.50 in

DEPOSITION
EXHIBIT # 99
Cmt 01/06/17
PENGAD 800-631-6989



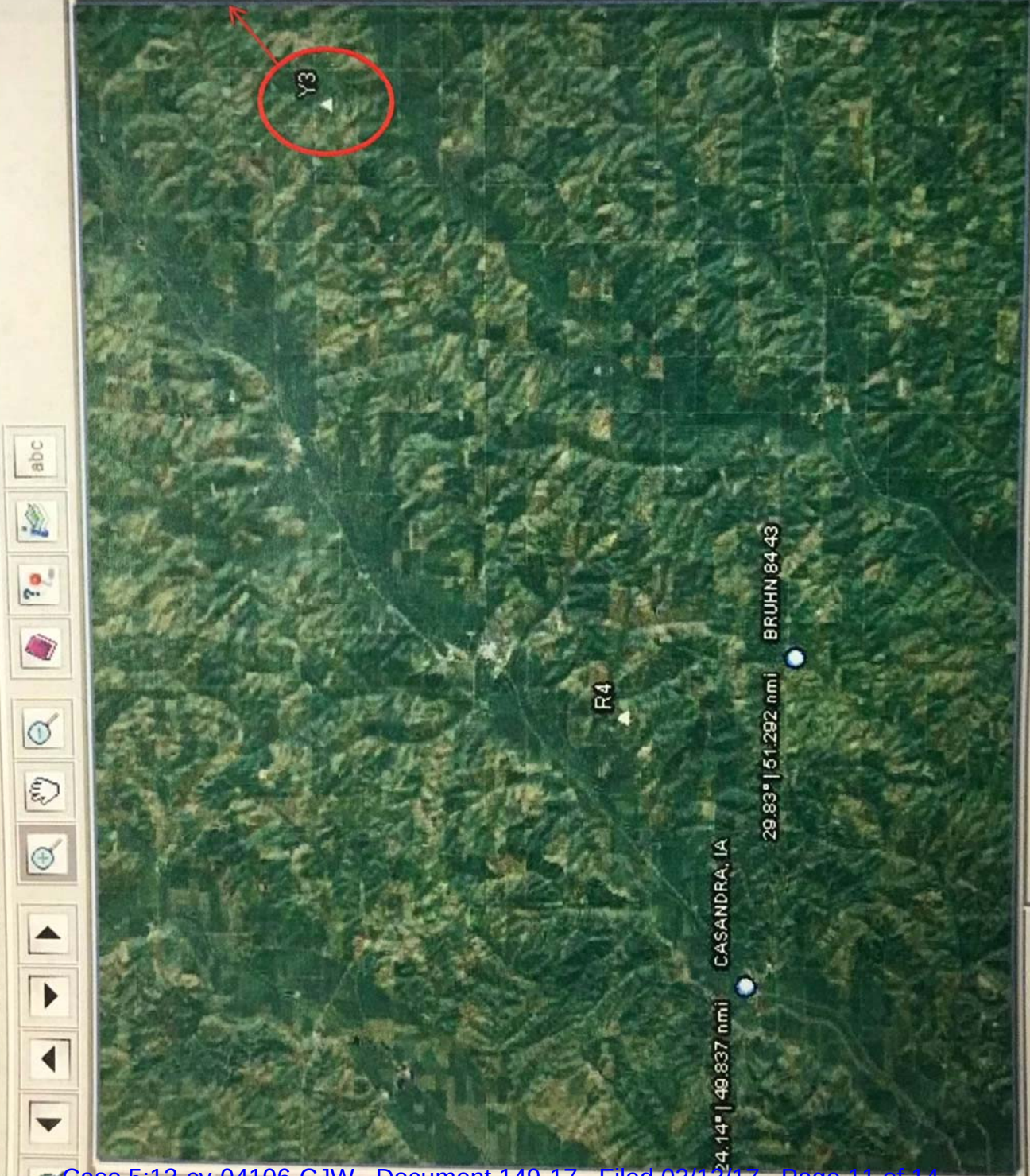
32.32° | 56.742 nmi

95.6876°W 42.1175°N (No Data)

Memory Usage: 34%

File Data View Tools Help

Services Data Layers



Map View: Standard

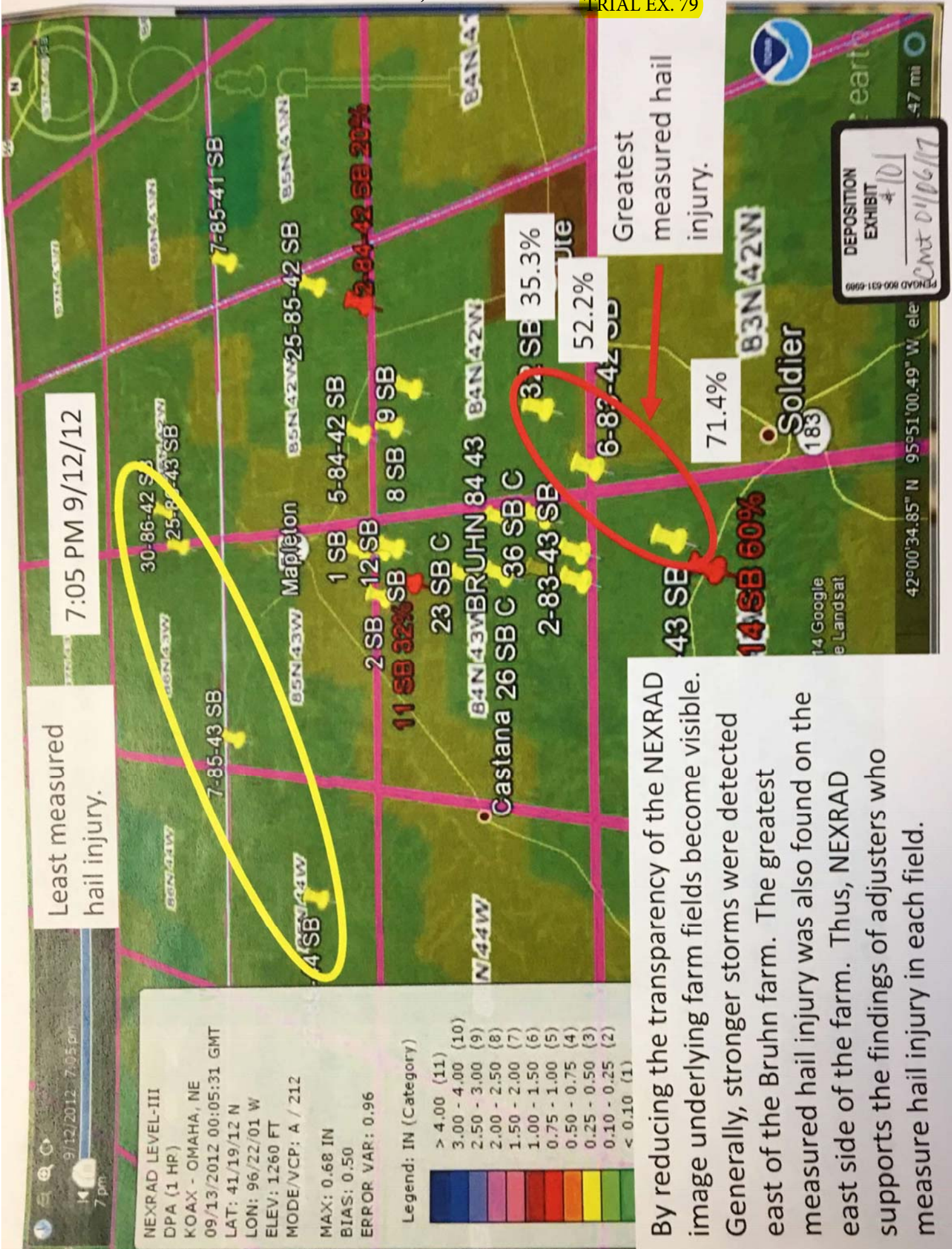
NEXRAD LEVEL-III
HAIL INDEX
09/13/2012 00:38:40 GMT
LAT: 41/19/12 N
LON: 96/22/01 W
ELEV: 1260 FT
MODE/VCP: A / 212
MAX ID: C2
PROB: 0%
MAX SIZE: 0.00 in

DEPOSITION
EXHIBIT # 100
Cmt 01/06/17
PENGAD 800-631-6989

Memory Usage: 35%

95.7675°W 42.0395°N (No Data)

31.79° | 50.879 nmi

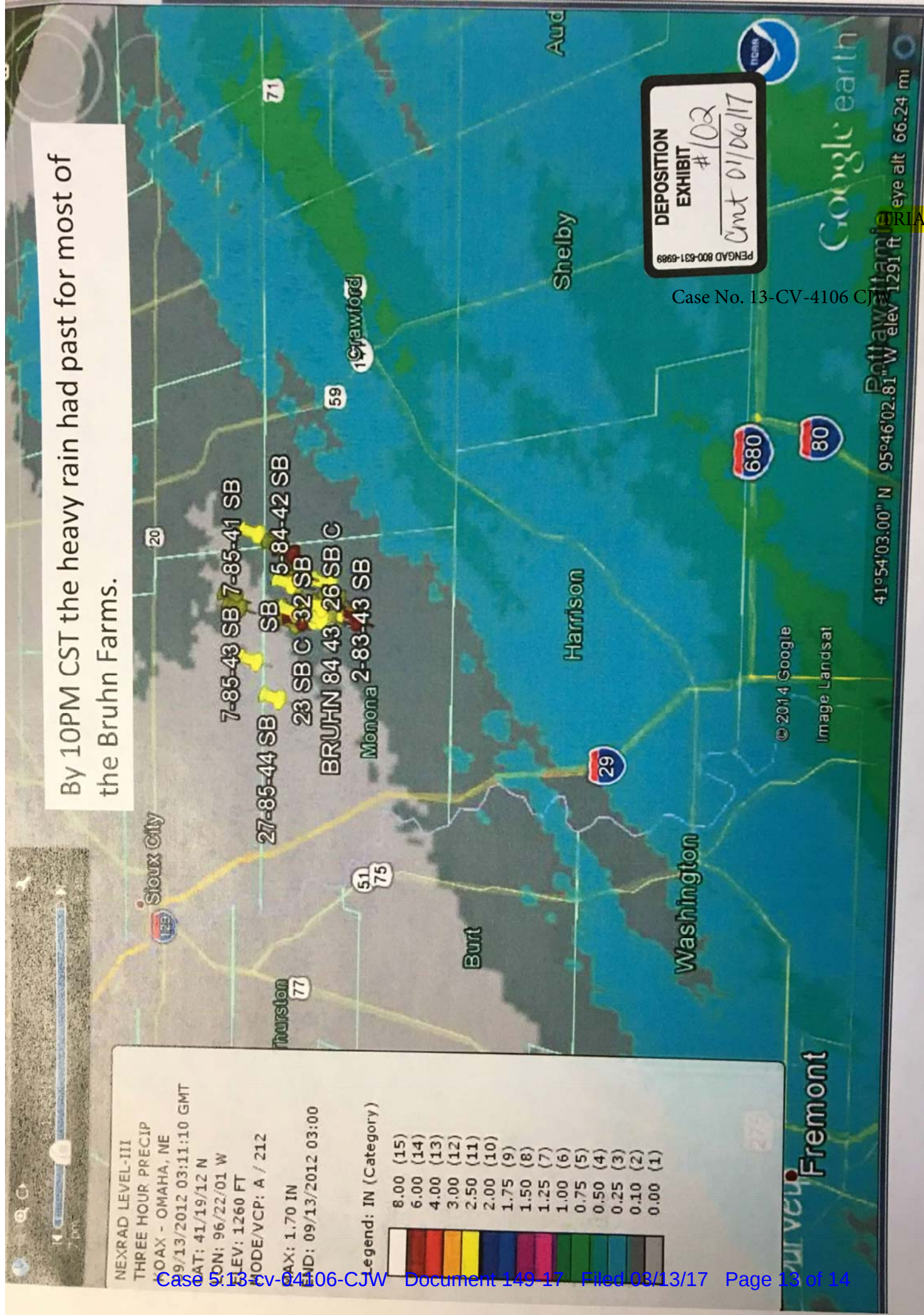


By reducing the transparency of the NEXRAD image underlying farm fields become visible. Generally, stronger storms were detected east of the Bruhn farm. The greatest measured hail injury was also found on the east side of the farm. Thus, NEXRAD supports the findings of adjusters who measure hail injury in each field.

By 10PM CST the heavy rain had past for most of the Bruhn Farms.

NEXRAD LEVEL-III
THREE HOUR PRECIP
OAX - OMAHA, NE
09/13/2012 03:11:10 GMT
LAT: 41/19/12 N
LON: 96/22/01 W
ELEV: 1260 FT
MODE/VCP: A / 212
OAX: 1.70 IN
END: 09/13/2012 03:00

Legend: IN (Category)

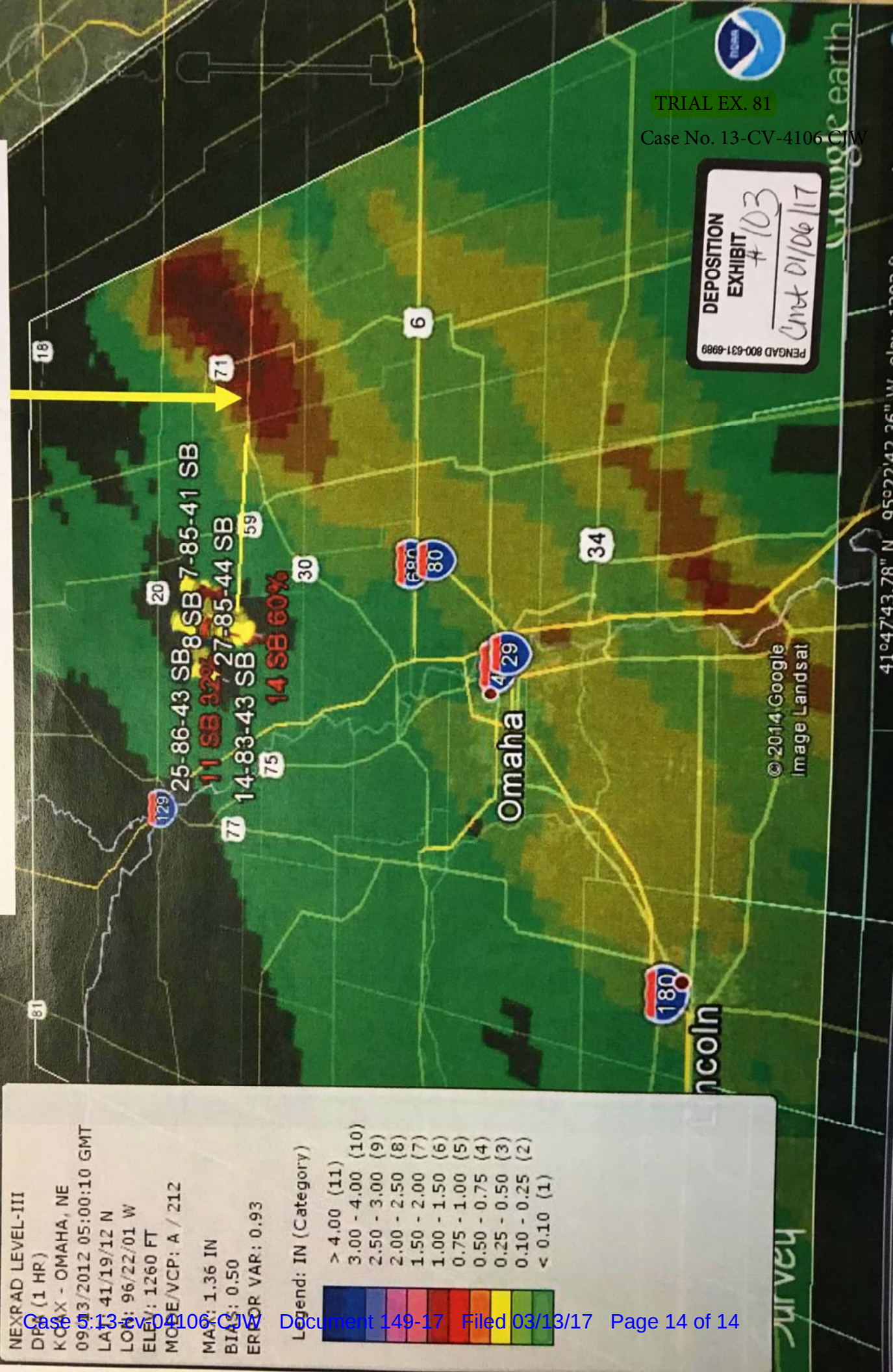


DEPOSITION
EXHIBIT
#102
Cmt 01/06/17
PENGAD 800-631-6989

Case No. 13-CV-4106-CJW

SERIAL EX. 80

The most severe weather and hail events were located approximately 30 miles to the east of Bruhn Farms.



TRIAL EX. 81

Case No. 13-CV-4106 CJW